# **Architecture Summary**

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### Stakeholder Inventory for Region NE Illinois Regional ITS Architecture

## **Academic/Research Organizations**

Element: University of Illinois ICT Data Archive Status: Planned

Description: Traffic data archive housed at the University of Illinois at Urbana-Champaign's Illinois Center for Transportation.

#### **AMTRAK**

Element: AMTRAK Rail Status: Existing Description: Local passenger train terminals that provide access to Amtrak service.

#### **Area Media Outlets**

Element: Media Status: Existing

Description: Television, radio, and print media that uses traffic information and images to present current transporation conditions to the

public.

# Arterial Performance Monitoring System Joint Venture Group

Stakeholders in this group:

Illinois Dept of Transportation District 1 Bureau of Traffic Operations

Illinois Tollway

Regional Transportation Authority City of Chicago OEMC and TMA

Element: City of Chicago DOT Arterial Performance Monitoring System Status: Existing

Description: A joint venture by ISTHA, RTA, IDOT, City of Chicago OEMC TMA for collecting the travel condition data on the arterial

road network. This currently uses CTA buses as probes.

## **Chicago Bureau of Convention and Tourism**

Element: Chicago Bureau of Convention and Tourism Database Status: Existing

Description: Database of planned events for Chicago and the Region.

## Chicago Metropolitan Agency for Planning (CMAP)

Element: CMAP Regional Parking Management System Status: Planned

Description: Represents the aggregated parking management systems implemented by system operators regionwide to undertake parking

management activities.

Element: CMAP Regional Transportation Data Archive Status: Existing

Description: The Regional Data Archive will collect and archive corridor-wide data that the Gateway Traveler Information System

receives from the three state gateways and local agencies, as it becomes available. Collection of GTIS data is currently

underway.

Element: CMAP Regional VMT Monitoring Equipment Status: Potential

Description: Equipment used to measure VMT use of individual vehicles and transmit information to department of revenue for applying

VMT fees. CMAP is a placeholder element owner.

## **Chicago Park District**

Element: Chicago Park District Parking Management System Status: Planned

Description: Parking Management System for City of Chicago Parks.

## **Chicago Police Department**

Element: Chicago Police Department Mobile Data Terminals Status: Existing

Description: Mobile computers allowing police to carry out various activities in the field, including mobile crash reporting.

 Element:
 Chicago Police Department Vehicles
 Status:
 Existing

 Element:
 Chicago Police Department Vehicles
 Status:
 Existing

Description: Vehicles used by the Chicago Police Department and the on-board equipment, including locational, communications, and data

connections.

## **Chicago Transit Authority**

Element: Chicago Transit Authority BusInfo Signs

Status: Existing

Description: BusInfo signs at CTA bus stops. The signs are part of the regional RTA initiative for better traveler information. They are

single or multiple carrier displays showing a countdown for the next vehicle of each route/direction serving that stop or

station.

Element: Chicago Transit Authority Active Transit Station Signs Status: Existing

Description: Active Transit Station Signs (ATSS) at CTA rail stations. The signs are part of the regional RTA initiative for better traveler

information. They are single or multiple carrier displays showing a countdown for the next vehicle of each route/direction

serving that stop or station.

Element: Chicago Transit Authority ATSS System Status: Existing

Description: Center system that provides the next train information used to drive the CTA Active Transit Station Signs

Element: Chicago Transit Authority Audio Announcement Equipment Status: Existing

Description: This is the field equipment that distributes audio announcements to passengers on trains and at stations.

Element: Chicago Transit Authority Automated Passenger Counting System Status: Existing

Description: All CTA buses are equipped with automatic boarding and alight counting systems. Series 5000 rail cars are also equipped.

CTA may retrofit older rail cars with counting technology.

Element: Chicago Transit Authority Automated Vehicle Monitoring System Status: Existing

Description: System which automatically tracks the maintenance needs of the bus fleet. Information is read electronically when buses

enter garages.

Element: Chicago Transit Authority Bus Tracker Website Status: Existing

Description: Website which provides real-time bus location information and arrival time based on AVL data.

Element: Chicago Transit Authority Bus Vehicles Status: Existing

Description: Bus Transit vehicles are used to provide transit services on area roadways. They are instrumented to gather and generate fare,

passenger loading, location and schedule adherence information, as well as provide passenger information via visual and audio displays. All buses are equipped to count boardings and alightings. Some buses are equipped with transit signal priority

on-board equipment.

Element: Chicago Transit Authority BusInfo System Status: Existing

Description: Bus Information system that provides bus arrival information for CTA buses to BusInfo signs.

Element: Chicago Transit Authority Communications Hubs Status: Planned

Description: Communications equipment deplayed at rail stations and other locations that route communications to various nearby

electronic equipment.

Element: Chicago Transit Authority Communications Infrastructure Status: Existing

Description: Systemwide fiber and wireless communication infrastructure. CTA has fiber communications covering its entire rapid transit

system as well as fiber connections to all maintenance facilities.

Element: Chicago Transit Authority Control Center Status: Existing

Description: The CTA Control Center controls the movement of buses and rapid transit trains and provides power control for rapid transit

operations. Both the BusWatch system and Rail Service Management System are resident at the Control Center, as are their

dispatchers. This includes CTA Hub that will feed the Illinois Transit Hub.

Element: Chicago Transit Authority Data Archive Status: Existing

Description: This data archive collects and archives data that it receives from CTA Control center

Element:Chicago Transit Authority Farecard MachinesStatus:ExistingElement:Chicago Transit Authority Farecard MachinesStatus:Existing

Description: This includes farecard machines for CTA fare cards located at rapid transit stations, local merchants, and Union Station.

Element: Chicago Transit Authority Garages Status: Existing

Description: Maintenance facilities for CTA transit vehicles

Element: Chicago Transit Authority Parking Management Guidance System Status: Planned

Description: CTA Parking Management Guidance Systems are to be installed at selected rapid transit stops near major tollways,

expressways, or strategic regional arterials. The will collect information on parking lot occupancy, and use it (along with

transit and highway travel times) to populate DMS designed to give highway travelers the chance to divert to transit.

Element: Chicago Transit Authority Rail Signaling Equipment Status: Existing

Description: CTA elevated train signal equipment

Element: Chicago Transit Authority Rapid Transit Vehicles Status: Existing

Description: CTA operates these heavy rail rapid transit vehicles on dedicated subway, elevated and grade rights-of-way in the City of

Chicago and in ring suburbs. All vehicles are AVL equipped.

Element: Chicago Transit Authority Revenue Collection Center Status: Existing

Description: This collects fare and payment collection status form CTA farecard vending equipment and CTA vehicles

Element: Chicago Transit Authority Security Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure. All rail stations and all CTA buses are equipped with cameras. 5000

Series rail cars also have cameras. Major rail switching junctions are also camera equipped.

Element: Chicago Transit Authority Smartcard Status: Existing

Description: Farecard for use on all CTA vehicles, some of which can used to connect to financial instituitions (credit cards) and others are

just fare cards.

Element: Chicago Transit Authority Stations Status: Existing

Description: Stations and platforms. Currently mainly rail stations exist, but some bus "stations" also exist, for example at Jefferson Park.

BRT service may also include stations.

Element: Chicago Transit Authority Transit Station Fare Collection Status: Existing

Description: Access and fare collection points for CTA Rapid Transit Vehicles. They can also be used at BRT stations.

City of Chicago

Element: Mayors Office of Special Events Status: Existing

Description: Web site with listing of events in Chicago.

# City of Chicago / Skyway Concession Company LLC

Stakeholders in this group:

City of Chicago

Skyway Concession Company (SCC)

Element: City of Chicago - Skyway Concession Company LLC Field Status: Existing

Description: Field equipment operating on the Skyway. Includes CCTV, detectors, and an RWIS.

Element: City of Chicago - Skyway Concession Company LLC Operations Status: Existing

Description: SCC toll bridge operation oversees the eight-mile long toll bridge connecting the Dan Ryan. The element manages traffic on

the Skyway and does toll administration.

Element: City of Chicago - Skyway Concession Company LLC Toll Plaza Status: Existing

Description: Electronic toll plaza operations for the Chicago Skyway.

City of Chicago Department of Aviation

Element:Chicago Airport Parking SystemsStatus:ExistingElement:Chicago Airport Parking SystemsStatus:Existing

Description: Parking Management Systems at OHare and Midway Airports.

Element: Chicago Airports Status: Existing

Description: Represents airports in the region, including O'Hare, Midway, Meigs Field, Gary and the planned South Suburban Airports.

This element represents the air transportation information that is available from the various airports.

Element: City of Chicago Department of Aviation Field Equipment Status: Existing

Description: Security monitoring devices located along roadway infrastructure at Midway and O'Hare Airports.

Element: Midway Airport Operations Center Status: Existing

Description: Midway Airport's landside transportation communications operation. This operation coordinates all aspects of land

transportation around Midway airport.

Element: OHare Air Cargo Terminal Status: Existing

Description: Air Cargo Terminal Operations at OHare Airport

Element: OHare Airport Operations Center

Description: O'Hare Airport is developing a landside transportation communications operation. This operation will coordinate all aspects

Status: Existing

of land transportation around O'Hare airport.

**City of Chicago Department of Streets and Sanitation (DSS)** 

Element: City of Chicago DSS Bureau of Street Operations Dispatch Status: Existing

Description: Department of Streets and Sanitation, Bureau of Street Operations, dispatch for snowplows and garbage trucks

Element: City of Chicago DSS Bureau of Traffic Services Dispatch Status: Existing

Description: Department of Streets and Sanitation, Traffic Services, dispatch of city owned and private towing vehicles

Element: City of Chicago DSS Field Equipment Status: Existing

Description: This element includes CCTV and RWIS stations (on 8 bridges).

Element: City of Chicago DSS Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment, towing (through the OEMC), and roadway and

signal maintenance.

City of Chicago Department of Transportation

Element: City of Chicago Communication Infrastructure Status: Existing

Description: Fiber and wireless communication network.

Element: City of Chicago DOT Data Hub Status: Planned Description: Data server to recieve, process, store and transmit archived transportation data.

Element: City of Chicago DOT Division of Electrical Operations Status: Existing

Description: Responsible for signal maintenance and signal maintenance dispatch. Includes maintenance of lighting systems.

Element: City of Chicago DOT Roadway Maintenance Status: Existing

Description: Department of Transportation, Division of Engineering, roadway maintenance dispatch. Does roadway maintenance such as

resurfacing and pot hole repair.

Element: City of Chicago DOT Transportation Website Status: Existing

Description: Website with traffic and road maintenance information for the City of Chicago. Includes email subscription for alerts.

www.traffictracker.com

Element: City of Chicago DOT Vehicles Status: Existing

Description: Maintenance vehicles used to perform roadway maintenance, such as resurfacing and pot hole repair. Vehicles are AVL

equipped.

Element: City of Chicago Oversize-Overweight Permitting Status: Existing

Description: Process used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes databases

and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: City of Chicago TMC Status: Existing

Description: The TMC will be the focal point to collect, transfer, process and disseminate real-time travel data, including information on:

road closures, construction activities, travel restrictions, accidents and incidents, and weather-related conditions. Other TMC functions may include: integration with road weather systems on city bridges, snow/ice removal management, special event traffic management, assistance during emergency evacuations, and supporting CVO initiatives. Includes Bureau of Electricity Signal Operations and BOE Radio Main. This element includes the current traffic signal control systems operated by the City

of Chicago.

City of Chicago OEMC and TMA

Element: City of Chicago 311 Center Status: Existing

Description: Call center for non-emergency requests.

Element: City of Chicago 911 CAD Status: Existing

Description: This is the 911 Center for the City of Chicago. It provides emergency dispatch services for the police and fire department in

the city of Chicago.

Element: City of Chicago Incident Center (CIC)

Status: Existing

Description: Co-located at the TMC, the CIC operates traffic signals and DMS, snow command, maintenance dispatching, roadway debris

removal, maintenance of traffic device placement, and the street permit system

Element: City of Chicago Joint Operation Center (JOC)

Status: Existing

Description: Co-located at the TMC, the JOC acts as incident command for special events and emergency management.

Element: City of Chicago OEMC C-Boxes Status: Existing

Description: C-Boxes are wireless access points which will be installed throughout Chicago to support transportation and safety and

security purposes.

Element: City of Chicago OEMC Field Equipment Status: Existing

Description: Traffic signals, traffic detectors, CCTV, VMS (portable and permanent) and highway advisory radio (HAR).

Element: City of Chicago OEMC Maintenance Vehicles Status: Existing

Description: Vehicles used to perform maintenance on OEMC field devices.

Element: City of Chicago OEMC Notify Chicago Website Status: Existing

Description: Website with traffic and emergency information for the City of Chicago. Also provides place to subscribe to emergency

notification via telephone, text, or email. https://webapps.cityofchicago.org/NotifyChicago/

Element: City of Chicago OEMC Security Monitoring Equipment Status: Existing

Description: Virtual Shield equipment, mainly cameras.

Element: City of Chicago OEMC Unified Command Vehicles Status: Existing

Description: A mobile base-of-operations for the City's Office of Emergency Management and Command (OEMC), if the OEMC

headquarters is rendered inoperable

Element: City of Chicago Operations Center (OC)

Status: Existing

Description: Co-located at the TMC, the OC oversees emergency notification sirens, security monitoring, OVS, POD video, tow dispatch

and TMA dispatch and monitoring

**Cook County** 

Element: Cook County Communication Infrastructure Status: Planned

Description: Communications infrastructure used for many county functions.

**Cook County Department of Highways and Transportation (DOTH)** 

Element: Cook County Department of Transportation and Highways Status: Existing Description: Operations and dispatch for Cook County construction vehicles and equipment.

Element: Cook County Department of Transportation and Highways Field Status: Existing

Description: Traffic signals (preemption/priority), traffic sensors, CCTV, and dynamic message signs owned and operated by Cook County

Highway Department.

Element: Cook County Department of Transportation and Highways Status: Existing Description: Operations and dispatch of Cook County maintenance vehicles and equipment.

Element: Cook County Department of Transportation and Highways Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: Cook County Department of Transportation and Highways Status: Existing

Description: System which can collect pavement condition automically and assist in managing maintenance needs. This is called Micro

Paver. Data is collected on roadways every 3 years.

Element: Cook County Oversize-Overweight Permitting Status: Existing

Description: County processes used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes

databases and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: Cook County TMC Status: Planned

Description: Traffic Management Center for Cook County operated roadways.

**Cook County Sheriff** 

Element: Cook County Sheriff Communications Center Status: Existing

Description: Dispatch of Cook County Sheriff Vehicles and Public Safety Answering Point (PSAP) for unincorporated portions of Cook

County.

Element: Cook County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

#### **Cook County Sheriff Emergency Management Agency**

Element: Cook County EOC Status: Existing

Description: Cook County Emergency Operations Center

# County/Municipal Paratransit Services

Stakeholders in this group:

Chicago Transit Authority

Cook County Department of Highways and Transportation (DOTH)

DuPage County Division of Transportation Kane County Division of Transportation Lake County Division of Transportation McHenry County Division of Transportation

Municipalities/Townships

Pace

Public and Non-Profit Paratransit Agencies
Will County Division of Transportation

Element: Other Regional Paratransit Dispatch Status: Existing

Description: Includes paratransit dispatch services for the county/municipal level

## **DuPage County Division of Transportation**

Element:DuPage County Accident Reporting SystemStatus: ExistingElement:DuPage County Accident Reporting SystemStatus: Existing

Description: Hardware, software and communications needed for maintaining information about accidents. DuPage County initiated this

system

to bring traffic accident data from local municipalities, the DuPage Sheriff's Office and the County Division of

Transportation into one central traffic accident database

Element: DuPage County Centralized Signal Management System Status: Planned

Description: Hardware, software and communications infrastructure needed to centrally manage DuPage County signals. This will mirror what Aurora has already implemented. Current monitoring and management are assigned to a workstation in the DuPage

County complex. In the future, this could be monitored and managed at the planned DuPage County TMC.

Element: DuPage County Communications Infrastructure Status: Planned

Description: Fiber and wireless communications infrastructure needed to support traffic management center and centralized signal control.

Element: DuPage County Construction Website Status: Existing

Description: Website providing information about current construction in DuPage County and also construction alerts. This project was

deployed to collect roadway construction and maintenance information from municipal transportation agencies across DuPage County, integrate this information into a single data source, and disseminate this information back to partner agencies and to

the public.

Element: DuPage County Field Equipment Status: Existing

Description: Traffic signals (preemption/priority), traffic sensors, environmental sensors, CCTV, and dynamic message signs owned and

operated by DuPage County Division of Transportation. Currently the Division has video image detection and traffic signal preemption for emergency vehicles. The remainder of the types of elements in the description are planned for the future.

Element: DuPage County ITS Hub Status: Planned

Description: Central computer system to receive, disseminate and archive transportation information.

Element: DuPage County Maintenance Operations Status: Existing

Description: Operations and dispatch of DuPage County maintenance vehicles and equipment.

Element: DuPage County Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: DuPage County Oversize-Overweight Permitting Status: Existing

Description: County processes used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes

databases and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: DuPage County TMC Status: Existing

Description: Traffic Management Center for DuPage County roadways. This may be combined with Aurora and/or Naperville. The TMC

is a cooperative effort between a number of DuPage County system operators.

**DuPage County Office of Homeland Security and Emergency Management** 

Element: DuPage County EOC Status: Existing

Description: DuPage County Emergency Operations Center. This EOC is staffed 24/7. It has a larger role in the region than other county

EOCs, acting as a regional EOC (actually for a larger 15 county area of the state). Also maintains countywide road closure

information.

Element: DuPage County EOC Field Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency

management

**DuPage County Sheriff** 

Element: DuPage County Sheriff Communications Center Status: Existing

Description: Public Safety Answering Points (PSAPs) operated by DuPage County. 911 call taking and Public Safety Dispatch for

unincorporated areas of the county and cell phone calls throughout the county.

Element: DuPage County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

**Grundy County Highway Department** 

Element: Grundy County Field Equipment Status: Existing

Description: Traffic signals (preemption/priority), traffic sensors, CCTV, and dynamic message signs owned and operated by Grundy

County Highway.

Element: Grundy County Maintenance Operations Status: Existing

Description: Operations and dispatch of maintenance vehicles and equipment for Grundy County.

Element: Grundy County Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: Grundy County TMC Status: Potential

Description: Traffic Management Center for Grundy County operated roadways.

**Grundy County Office Emergency Management** 

Element: Grundy County EOC Status: Existing

Description: Emergency operations center for Grundy County.

Element: Grundy County EOC Field Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency

management

**Grundy County Sheriff** 

Element: Grundy County 911 Center Status: Existing

Description: Public Safety Answering Points (PSAPs) operated by Grundy County, as well as police, fire, and EMS dispatch.

Element: Grundy County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

**Illinois Commerce Commission** 

Element: Illinois EOSS/ CVISN Web Site Status: Planned

Description: Electronic One Stop Shop (EOSS) System is under development in Illinois to provide the CVISN (Commercial Vehicle

Information Systems and Networks) functionality within the state. Will provide a web site where carriers and their agents can

apply for credentials, and where agencies can obtain carrier information.

Core CVISN functionality system, including

Safety Information Sharing: Provides carrier, vehicle, and driver safety information to roadside enforcement personnel and other authorized users. Data include inspection reports and snapshots.

Electronic Screening: Automatically screens vehicles that approach a roadside check station, determine whether further inspection or verification of credentials is rquired, and take appropriate actions.

Credentials Administration: Provide electronic application, processing, fee collection, issuance, and distribution of (at least) International Registration Plan (IRP) and International Fuel Tax agreement (IFTA) credentials

Element: Illinois Single State Registration System

Status: Existing

Description: The Illinois Single State Registration System (SSRS) allows registration of commercial vehicles and provides a database of valid registrations within the state. The SSRS system allows carriers to obtain operating authority for any participating states in which they will be active with a single request to the motor carrier's base state. The system provides a common registration point and database for vehicles operating in 38 states.

## **Illinois County Emergency Services**

Element: Other County 911 Centers

Status: Existing

Description: Represents emergency call taking and public safety dispatch in Illinois counties adjacent to the region.

Element: Other County EOCs

Status: Existing

Description: Represents Emergency Operations Centers in Illinois Counties outside of the region.

Element: Other County PSAPs

Status: Existing

Description: Represents Public Safety Answering Points in Illinois Counties outside of the region.

### **Illinois Dept of Revenue**

Element: Revenue collection systems.

Status: Existing

Description: The primary responsibility of the Department of Revenue is to serve as the tax collection agency for state government and for local governments. The department regulates the manufacture, distribution, and sale of alcoholic beverages. The department also oversees local property tax assessments, and functions as the funding agent for the Illinois Housing Development Authority.

#### Illinois Dept of Transportation Central Bureau of Bridges and Structures

Element: IDOT Bureau of Bridges and Structures Field Equipment Status: Existing Description: Consists of CCTV for surveillance of critical bridge and other infrastructures

Element: IDOT Bureau of Bridges and Structures Remote Bridge Control

Status: Existing

Description: Curently controls six operable IDOT bridges over the Des Plaines River in Joliet, IL. Each of the six bridges is subject to both automobile and pedestrian traffic, while the thoroughfare below is subject to varying levels of maritime traffic, both commercial and private. Each bridge is monitored at all times from its respective local bridge house by an IDOT operator, IDOT is seeking to implement an automation process to control all 6 bridges from one remote location (Bridge St. office). A command center houses the monitoring of all six bridges by three (3) operators at any given time with 3 operator stations, each with the ability to view and control any one of the six bridges and its associated cameras.

Element: IDOT Bureau of Bridges and Structures Remote Bridge Control Status: Existing

Description: CCTV, communications, and other field equipment needed to monitor and control 6 bridges in the Joliet area.

## Illinois Dept of Transportation Central Bureau of Information Processing

Element: IDOT Construction Closure Application Website Status: Planned

Description: This website will receive contractor requests for lane closures, provide the request information to the appropriate staff, and automatically forward lane closure information to real-time traffic information providers.

Element: IDOT District 1 Communications Backbone Status: Existing

Description: Communications backbone on IDOT system that supports system surveillance and management, integration of centers, and high speed communications that local agencies may use to manage their systems. Much of the system is existing, but

expansion and gap filling is also needed.

Element: IDOT Toll Business Center Status: Potential

Description: Congestion pricing IDOT facilities will require a toll management and processing center. This may be in-house or contracted

out, to be determined in further studies.

Element: IDOT Toll Plazas / Gantries Status: Potential Description: Locations, structures and equipment along IDOT roadways to support potential electronic tolling.

Element: IDOT Transportation Information Websites Status: Existing

Description: multiple websites

www.iltraffic.com to subscrie to personalized traffic reports

www.gettingaroundillinois.com mapping system with individual maps for winter road conditions, truck permit routes, road weather information, travel information, bicycle routes, construction locations, traffic volumes, truck routes, functional class

Status: Existing

Element: Illinois DOT Telephone Info Status: Existing

Description: Existing phone system for providing traveler information. For pre-recorded Road Condition information, 1-800-452-IDOT

(4368)

Element: Illinois GIS Transportation Coalition

Description: A GIS group focused on Transportation. The Illinois GIS Transportation Coalition will be a focal point for all GIS users as

well as other GIS Data Providers. IDOT envisions the Illinois GIS Transportation Coalition as being a place to share

information between all levels of government

#### Illinois Dept of Transportation District 1 Bureau of Maintenance Operations

Element: IDOT District 1 Bureau of Construction Status: Existing Description: Operations and dispatch for IDOT construction vehicles and equipment.

Element: IDOT District 1 Maintenance Management Status: Existing

Description: Represents Duty Engineer and Operations Area Engineer.

Element: IDOT District 1 Maintenance Yards Status: Existing

Description: This element represents the IDOT District 1 maintenance yards that provide materials storage and equipment repair.

Element: IDOT Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

### Illinois Dept of Transportation District 1 Bureau of Traffic Operations

Element: IDOT District 1 Bureau of Traffic - Arterial Operations Field Status: Existing

Description: Field equipment for IDOT District 1 Arterial Signal Systems. Includes traffic signals (including detection), EVP/priority, CCTV cameras, monitoring equipment and arterial DMS.

Element: IDOT District 1 Bureau of Traffic - Arterial Signal Operations Status: Existing

Description: IDOT District 1 Arterial Signal Systems. IDOT Traffic Signal Systems operates at over 4000 intersections, including many coordinated signal systems.

Element: IDOT District 1 Bureau of Traffic - Expressway Operations Unit Status: Existing

Description: This unit handles approval of lane closures and distributes information regarding closures on the expressway system. Provides info to the Gateway Traveler Information System and approves reversible lanes schedules..

Element: IDOT District 1 ComCenter Status: Existing

Description: The Communications Center acts as the 24-hour incident management and operations center for IDOT District 1 and has control over the HAR system and the Kennedy Expressway reversible lane control (RevLac) system. During the TSC off hours, the ComCenter may operate the TSC's DMS. Provides info to the Gateway Traveler Information system and hosts GTIS staff 24/7/365 colocation. ComCenter also dispatches maintenance vehicles.

Element: IDOT District 1 ComCenter Field Equipment Status: Existing

Description: Refers to the RevLac system on the Kennedy Expressway, the expressway CCTV camera system, HAR, advance signing, ramp gates, and moveable bridge systems.

Element: IDOT District 1 Traffic Systems Center (TSC)

Status: Existing

Description: The TSC is responsible for managing congestion on IDOT's District 1 expressway system. The TSC is also responsible for distributing congestion information to the public and to independent service providers and to the Illinois Gateway. The TSC also hosts server equipment for the relocated Gateway Traveler Information System. There are 10 servers at the University of Illinois in Chicago, and 10 at the TSC.

Element: IDOT District 1 Traffic Systems Center Field Equipment Status: Existing

Description: Equipment includes vehicle detectors, ramp metering, CCTV, DMS, arterial DMS, portable DMS, RWIS and wet pavement sensors. The TSC operates between 5 AM and 8 PM on weekdays. During off hours, some of the TSC operations are performed by the IDOT ComCenter.

Element: IDOT Emergency Traffic Patrol (ETP)

Status: Existing

Description: Emergency traffic patrol for interstates. The core Cook County/Idot expressway system is covered 24/7/365. Over 100,000

assists are provided annually and it is full service with in-hous provided patrols, tow trucks, heavy wreckers, etc. This service

has also gained new importancefor keeping the bus on shoulders lane clear for transit service.

Element: IDOT Emergency Traffic Patrol Vehicles Status: Existin

Description: Emergency Traffic Patrol Vehicles (Minutemen) that provide motorist assistance on the expressways. This fleet includes the

range of vehicles that may be needed for assisting travelers including commercial vehicles. IDOT District 1 has about 4

heavy wreckers, 40 medium duty "stinger" tow trucks for quick clearance and 12 4x4 SUV supervisor trucks.

## Illinois Dept of Transportation Division of Highways Bureau of Operations

Element: IDOT Central Bureau of Operations Field Equipment Status: Existing

Description: Weather sensors and traffic count equipment owned and operated by IDOT Central Operations.

Element: IDOT Central Bureau of Operations Roadway and Weather Status: Existing

Description: Central Bureau of Operations system that distributes roadway and road weather information collected at field equipment

Element: IDOT Roadside Truck Freight Equipment Status: Existing

Description: This includes equipment such as high-speed weigh in motion equipment and pre-clearance / truck credentialing equipment.

Element: IDOT Weigh Stations Status: Existing

Description: IDOT fixed site weigh scales. Pre-Pass Systems being installed at all interstate weigh stations. The weigh stations are

physically maintained by IDOT, but are staffed by the Illinois State Police.

## **Illinois Dept of Transportation Division of Traffic Safety**

Element: IDOT CVO Mobile Inspection Station Status: Existing

Description: Mobile CVO Inspection station located in the region

Element: IDOT CVO Permitting - Oversize/Overweight Status: Existing

Description: The Oversize/Overweight (OSO) permitting system is used to provide permits electronically to carriers via the Electronic One-

Stop Shop (EOSS) website within the state of Illinois. This information is provided to Illinois State Police as needed.

Element: Illinois Mobile Capture and Reporting System (MCR)

Status: Existing

Description: The Mobile Capture & Reporting System is a free computer system developed by IDOT in conjunction with the Illinois State

Police for law enforcement agencies. The first phase provides for electronically capturing and submitting crash report data. The division of Traffic Safety currently receives approximately 500,000 to 600,000 paper crash reports per year fro processing. IDOT has many internal uses for crash data and provides crash data and statistics to numerous outside entities. MCR has been designed to facilitate future plans to iclude the automation of citations, overweight, and warning tickets. The

system can be used from mobile devices and from office locations. http://www.dot.state.il.us/mcr/mcr.html

## **Illinois Dept of Transportation ITS Program Office**

Element: Gateway Traveler Information System GTIS Status: Existing

Description: Traveler information collection and distribution hub for the Lake Michigan Interstate Gateway Alliance LMIGA corridor. It

collects traveler and transportation related information: congestion, travel times, incidents, construction, camera images, DMS signs, special and events information for the LMIGA region. It provides links to transit schedule information and weather. Gateway Central also acts as a communication hub for information that is shared between agencies. It feeds data to the

TravelMidwest.com website.

Element: Gateway TravelMidwest Website Status: Existing

Description: The Gateway Website receives travel and transportation related information from the Gateway Central and distributes the

information to the traveling public via the Internet. The physical location of the servers is at the Traffic Systems Center (TSC)

and University of Illinois in Chicago. www.travelmidwest.com

Element: IDOT Email Notification System (ENS)

Status: Existing

Description: Email notification system available at www.ILtrafficalert.com that provides traveler information on traveler selected routes

for traveler selected times on 70+ expressway routes.

### **Illinois Emergency Management Agency**

 Element:
 Statewide Emergency Operations Center
 Status: Existing

 Element:
 Statewide Emergency Operations Center
 Status: Existing

Description: Illinois Statewide Emergency Operations Center in Springfield, houses the State Incident Response Center (SIRC), the State

Terrorism Intelligence Center (STIC), the Illinois Terrorism Task Force (ITTF), the Radiological Emergency Assessment

Center (REAC), the state's 24-hour telecommunications center, and response personnel from the Illinois Emergency Management Agency (IEMA).

## Illinois Environmental Protection Agency

Element: Illinois Environmental Protection Agency (EPA) Status: Existing

Description: The Illinois Environmental Protection Agency monitors air quality through the Division of Air Pollution Control. The Agency monitors vehicle emissions through the Division of Vehicle Inspection and Maintenance.

#### **Illinois International Port District**

Element: Port of Chicago Intermodal Facilities Status: Existing

Description: The Port of Chicago is a key terminus for ship, rail, and trucking in the region. It comprises facilities at Irquois Landing

Lakefront Terminus and at Lake Calumet.

## **Illinois Secretary of State**

Element: Dept of Driver Services Status: Existing

Description: The Illinois Department of Driver Services (commonly known as the Department of Motor Vehicles) is a terminator in this

architecture.

# Illinois State Police

Stakeholders in this group:

Illinois State Police District 15

Illinois State Police Districts 2, 5, and Chicago

Element: CVO Pre-Pass Status: Existing

Description: Electronic pre-screening system. All weigh stations on Illinois interstates are equipped with Prepass.

Element: Illinois State Police Vehicles Status: Existing

Description: Police Vehicles with mobile data terminals that can be used to access information from Dispatch as well as information from

the Single State Registration System

#### **Illinois State Police District 15**

*Element:* Illinois State Police District 15 Operations Desk *Status:* Existing *Description:* Operations and Dispatch for State Police District 15, which covers the Tollways.

## Illinois State Police Districts 2, 5, and Chicago

Element: CVO Crash Reporting (MCSAP) Status: Existing

Description: Reporting of CVO related crashes through MCSAP (Motor Carrier Safety Assistance Program).

Element: CVO Inspection Reporting (ASPEN)

Status: Existing

Description: ASPEN is a laptop-based system that allows safety inspectors to enter Inspection Reports at the roadside and forwards them to

CVIEW. It allows them to retrieve Inspection Reports, Carrier Profiles, and snapshots to help

in selecting vehicles for inspection.

Element: Illinois State Police Dispatch (Districts 2, 5 and Chicago) Status: Existing

Description: Operations and dispatch for the State Police Districts covering the region. District 2 covers DuPage, Kane, Lake, and

McHenry counties. District 5 covers Will County and Chicago District covers Cook County.

## Illinois Tollway

Element: \*999 Cellular Express Line Status: Existing

Description: A cellular incident reporting system provided by contract to ISTHA and IDOT which covers the City of Chicago and

surrounding 8 counties.

Element: Illinois Tollway Computer Aided Dispatch Center Status: Existing

Description: Dispatch of Highway Emergency Lane Patrol (HELP)

Element: Illinois Tollway Highway Emergency Lane Patrol Vehicles Status: Existing

Description: Highway Emergency Lane Patrol (HELP) Vehicles to provide service patrol on Thruways.

Element: Illinois Tollway IPASS Business Center Status: Existing

Description: Administrative center that manages I-Pass electronic toll system.

Element: Illinois Tollway I-Pass Toll Plazas Status: Existing Description: Toll Plazas providing electronic Toll Collection using the I-Pass system.

Element: Illinois Tollway Maintenance and Construction Status: Existing Description: Operations and dispatch of maintenance vehicles and equipment for the Tollway.

Element: Illinois Tollway Maintenance Vehicle Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: Illinois Tollway Oversize-Overweight Permitting Status: Existing

Description: Process used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes databases

and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: Illinois Tollway TIMS Kiosks Status: Planned Description: Kiosks owned and operated by ISTHA and located at Tollway rest stops.

Element: Illinois Tollway TMC (TIMS) Status: Existing

Description: Tollway Traffic Incident and Management System (TIMS) to provide control and monitoring of roadway devices such as

dynamic message signs and CCTV. Reports travel times, incidents, and construction and maintenance information to the

Illinois Gateway and to media.

Element: Illinois Tollway TMC Field Equipment Status: Existing

Description: Roadway devices such as traffic sensors, ramp queue detectors, weigh-in-motion sensors, dynamic message signs, portable

dynamic message signs, RWIS and CCTV used to monitor the roadway for traffic flow and incidents and to provide

information to Tollway drivers.

Element: Illinois Tollway Weigh in Motion Status: Existing

Description: ISTHA fixed site weigh scales.

**Independent School Districts** 

Element: Independent School District Dispatch Status: Existing

Description: Represents the dispatch function of each of the many independent school districts within the region.

**Indiana Dept of Transportation** 

Element: Indiana DOT Arterial TMC Status: Planned

Description: Traffic Management Center to monitor and control INDOT arterials in NW Indiana.

Element: Indiana Gateway Status: Existing

Description: This represents the Gateway that collects traffic, transit, and traveler information from systems within Indiana and forwards

this information to Gateway Central. Key information available to the Indiana Gateway is outputs from the Borman Traffic

Management Center.

**Indiana Dept of Transportation- Laporte District** 

Element: Borman Traffic Management Center Status: Existing

Description: The Borman TMC will collect and distribute detector data, construction, maintenance and special event information, VMS

status and messages, and CCTV feeds. It will also provide control and monitoring messages to the Indiana Gateway.

**Indiana Public Safety Agencies** 

Element: Indiana County/ Municipal Public Safety Dispatch Status: Existing

Description: Public Safety dispatch (including 911, police, fire, and EMS) for the counties and municipalities that border Illinois.

**Indiana State Police** 

Element: Indiana State Police Dispatch Status: Existing

Description: Dispatch of Indiana State Police District 11 and 13.

**Indiana Toll Road Concession Company (ITRCC)** 

Element: Indiana Toll Road Operations Center Status: Existing

Description: Center to operate and control detectors, dynamic message signs, CCTV on the Indiana Toll Road.

**Intermodal Yard Operators** 

Element: Intermodal Facilities Status: Existing

Description: Intermodal facilities that provide transfer of freight between rail, river, and commercial vehicle.

**Kane County Division of Transportation** 

Element: Kane County Communications Infrastructure Status: Existing

Description: Fiber and wireless communications needed to support Kane County ITS activities, such as the Kane County TMC and Kane

County Stearns Road Smart Corridor.

Element: Kane County Construction Operations Status: Existing

Description: This element administers construction operations for work zones and provides workzone information to other elements. It

also has DMS control, puts cameras on work sites.

Element: Kane County Field Equipment Status: Existing

Description: Traffic signals (preemption/priority), traffic sensors, CCTV, portable dynamic message signs, speed monitoring trailers, and

environmental sensors owned and operated by Kane County Transportation.

Element: Kane County Maintenance Operations Status: Existing

Description: Operations and dispatch of maintenance vehicles and equipment for Kane County.

Element: Kane County Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: Kane County Oversize-Overweight Permitting Status: Existing

Description: County processes used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes

databases and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: Kane County TMC Status: Planned

Description: Traffic Management Center for Kane County operated roadways.

**Kane County Office of Emergency Management** 

Element: Kane County EOC Status: Existing

Description: Emergency operations center for Kane County.

Element: Kane County EOC Field Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure, portable DMS (shared with Kane County DOT) & emergency

communication devices for emergency management

**Kane County Sheriff** 

Element: Kane County 911 Center - KaneComm Status: Existing

Description: Public Safety Answering Points (PSAPs) operated by Kane County, as well as police, fire, and EMS dispatch for all

unincorporated areas of Kane County.

Element: Kane County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

**Kendall County Highway Department** 

Element: Kendall County Field Equipment Status: Existing

Description: Traffic signals (preemption/priority), traffic sensors, CCTV, and dynamic message signs owned and operated by Kendall

County Highway.

Element: Kendall County Maintenance Operations Status: Existing

Description: Operations and dispatch of maintenance vehicles and equipment for Kendall County.

Element: Kendall County Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: Kendall County TMC Status: Potential

Description: Traffic Management Center for Kendall County operated roadways.

**Kendall County Office of Emergency Management** 

Element: Kendall County EOC Status: Existing

Description: Emergency operations center for Kendall County.

Element: Kendall County EOC Field Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency

management

**Kendall County Sheriff** 

Element: Kendall County 911 Center Status: Existing

Description: Public Safety Answering Points (PSAPs) operated by Kendall County, as well as police, fire, and EMS dispatch.

Element: Kendall County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

**Kenosha County Department of Public Works** 

Element: Kenosha County Highway Maintenance Operations Status: Existing

Description: Dispatch of Kenosha County maintenance vehicles and equipment.

Element: Kenosha County Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

**Kenosha County Public Safety Agencies** 

Element: Kenosha County Public Safety Dispatch Status: Existing

Description: Represents Public Safety functions (Sheriff, Fire, EMS, 911) at the county level in Kenosha County. Also represents the

Kenosha County EOC.

Kenosha Transit

Element: Kenosha Transit Dispatch Status: Existing

Description: Kenosha Wisconsin transit dispatch

**Lake County Division of Transportation** 

Element: Lake County Communication Infrastructure Status: Existing

Description: Fiber and wireless communication infrastructure.

Element: Lake County Field Equipment Status: Existing

 ${\it Description:} \ \ {\it Traffic signals, preemption/priorty equipment, traffic sensors, CCTV, portable dynamic message signs (DMS) \ , blue-tooth$ 

traffic sensors, highway advisory radio (HAR), and environmental sensors (RWIS) owned and operated by Lake County

Transportation.

Element:Lake County Highway Construction OperationsStatus:ExistingElement:Lake County Highway Construction OperationsStatus:Existing

Description: This element manages work zone operations and provides workzone information to other elements. It also has DMS control,

and includes cameras placement requirements on work site contracts.

Element: Lake County Highway Maintenance Operations Status: Existing

Description: Operations and dispatch of maintenance vehicles and equipment for Lake County. This element has general maintenance

dispatch and sign shop dispatch. This element monitors 4 Road Weather Information System stations at the four corners of

the county.

Element: Lake County Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance. All vehicles are AVL

equipped.

Element: Lake County Oversize-Overweight Permitting Status: Existing

Description: County processes used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes

databases and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: Lake County PASSAGE TMC Status: Existing

Description: Lake County PASSAGE Traffic Management Center (TMC) operates the County roadways. PASSAGE is an Intelligent

Transportation System designed to provide motorists real time traffic congestion information due to crashes and construction events. These events are communicated by police department's Computer Aided Dispatch (CAD) systems, sent directly to the Transportation Management Center (TMC), and then communicated back to highway users via www.lakecountypassage.com,

PASSAGE Highway Advisory Radio (HAR) 1620 AM, variable message signs, smartphone applications, and a variety of

social media outlets.

PASSAGE is currently connected to over 300 traffic signals, 200 traffic monitoring cameras, and nearly 400 video detection cameras. The data from this equipment is brought back to the TMC on over 200 miles of Fiber and various wireless data links.

Element: Lake County PASSAGE Website

Description: Traveler information website administered by the Lake County PASSAGE Program. The website provides incident

information and live travel conditions. It also provides a portal to subscriptions for email and text message notifications, provides information to the regional Gateway Travelor Information System, and provides the opportunity to download a Lake

Status: Existing

County Passage smart phone application.

**Lake County Emergency Management Agency** 

Element: Lake County EOC Status: Existing

Description: Lake County Emergency Operations Center

Element: Lake County EOC Field Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency

management

**Lake County Sheriff** 

Element: Lake County Emergency Communications Center 911 Status: Existing

Description: Public Safety Answering Points (PSAPs) operated by Lake County

Element: Lake County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

**McHenry County Division of Transportation** 

Element: McHenry County Field Equipment Status: Existing

Description: Traffic signals, preemption/priority equipment, traffic sensors, CCTV, and dynamic message signs owned and operated by

McHenry County Highway.

Element:McHenry County Maintenance OperationsStatus:ExistingElement:McHenry County Maintenance OperationsStatus:Existing

Description: Operations and dispatch of maintenance vehicles and equipment for McHenry County.

Element: McHenry County Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: McHenry County Oversize-Overweight Permitting Status: Existing

Description: County processes used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes

databases and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: McHenry County TMC Status: Potential

Description: Traffic Management Center for McHenry County operated roadways.

McHenry County Emergency Services and Disaster Agency

Element: McHenry County EOC Status: Existing

Description: Emergency Operations Center for McHenry County

Element: McHenry County EOC Field Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency

management

**McHenry County Sheriff** 

Element: McHenry County Sheriff Dispatch

Description: Public Safety Answering Points (PSAPs) operated by McHenry County

Element: McHenry County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

Metra

Element: Metra Automated Passenger Counting System Status: Planned

Description: Vehicle or station based passenger counting system.

Element: Metra Consolidated Control Facility

Description: The Consolidated Control Facility, located in Chicago at 15th and Canal, is the focal point for management of Metra operated

trains. It includes the computer aided dispatch system for train operations on the Metra system (including the Metra Contract Carrier Dispatch). The CTCO, which manages the private rail freight operations, is housed within this facility. The police dispatch and signal system control are other major functions of Control Facility. Responsibility for Positive Train Contol will

Status: Existing

also be housed here.

*Element:* Metra Fare Collection Equipment Status: Existing Description: This covers all equipment at stations and on trains used for fare collection.

Element: Metra Fiber Communication Backbone Status: Planned

Description: Fiber communications network to support ITS activities.

Element: Metra GPS Center (TIMS)

Status: Existing

Description: The Metra GPS Center uses the Train Information Management System (TIMS) to collects location and schedule adherence

 $information\ from\ trains,\ primarily\ for\ passenger\ information\ use.\ This\ includes\ the\ Metra\ Hub\ that\ feeds\ the\ Illinois\ Transit$ 

Hub. The GPS System also makes the public announcements.

Element: Metra Maintenance Yards Status: Existing

Description: Facilities to service Metra trains. On-board data is collected wirelessly using handheld units.

Element: Metra On-Board Equipment Status: Existing

Description: On-board equipment such as GPS and the technology needed to implement positive train control.

Element: Metra Parking Management Guidance System Status: Existing

Description: Parking Management Guidance System installations at Metra facilities will monitor parking lot occupancy and pass the

information to roadside display signs as well as to the Illinois Transit Hub.

Element: Metra Passenger Information Display System Status: Existing

Description: Metra Passenger Information Display System (PIDS) is part of the regional RTA initiative for better traveler information.

These are located in the downtown staions.

Element: Metra Passenger Services Status: Existing

Description: Back office fare processing center.

Element: Metra PMGS Signs Status: Existing

Description: DMS signs to display information for the Metra Parking Management Guidance System.

Element: Metra Police Status: Existing Description: Law enforcement personnel operating on Metra trains and at Metra stations

Element: Metra Public Address System Status: Existing

Description: The Metra Public Address System currently provides service advisories and other information at Metra stations. Using GPS

information, this system is also used to announce real time arrival and departure information at platforms and next stations on-

board trains.

Element: Metra Rail Operator Status: Existing

Description: Human in the loop for getting information onto the website. The information includes schedules, stations and notice of

disruption/alerts

Element: Metra Security Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure

Element: Metra Suburban Passenger Information Display Signs Status: Existing

Description: Signs that provide real time rail arrival information. The signs are part of the regional RTA initiative for better traveler

information. They are single or multiple carrier displays showing a countdown for the next vehicle of each route/direction

serving that stop or station.

Element: Metra Track and Signaling Equipment Status: Existing

Description: Metra train signal equipment

Element: Metra Trains Status: Existing

Description: Trains will include ITS devices that support the safe and efficient movement of passengers. These systems collect, manage,

and disseminate transit-related information to the conductor and travelers.

Element: Metra Wayside Equipment Status: Existing

Description: Track sensors and gate controls at highway rail intersections

Element: Metra Website Status: Existing

Description: Static schedules, station and alert information.

## **Metro Pier and Exposition Authority (MPEA)**

Element: MPEA Parking Management Status: Planned

Description: Parking Management System for McCormick Place and Navy Pier.

#### **Municipalities/Townships**

Element: Municipal EMCs Status: Existing

Description: Emergency Management Centers operated by municipalities in the region. Also includes EOCs operated by county/

municipal within Northwest Indiana.

Element: Municipal Parking Management Guidance System Status: Potential

Description: Municipal Parking Management Guidance Systems are to be installed at selected transit stops near major tollways, expressways, or strategic regional arterials. The will collect information on parking lot occupancy, and use it (along with

transit and highway travel times) to populate DMS designed to give highway travelers the chance to divert to transit.

Element: Municipal Public Safety Dispatch Status: Existing

Description: Call taking and emergency services dispatch (police, fire, and EMS) operated by municipalities in the region. Include Fire Protection District dispatch. Also includes dispatch of county run police services for Forest Preserves and the Public Transportation Section (CTA). The following municipal public safety dispatch organizations are examples of these types of

Transportation Section (CTA). The following municipal public safety dispatch organizations are examples of these types of elements: DuComm (provides emergency dispatch services for 28 police and fire departments in DuPage County), SouthCom, Northwest Central Dispatch (NWCD serves as the Police dispatch agency for 6 communities in the NW suburbs of Chicago), EastCom (in Will County), Westcom, Regional Emergency Dispatch Center (Fire dispatch for 6 communities in northwest

Cook county), QuadCom, Elgin Dispatch, Tricom, and Aurora Dispatch.

Element: Municipal Public Safety Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

Element: Municipal TMCs Status: Existing

Description: Higher functioning transportation management facilities run by municipalities. Represents a level of TMC below the County

TMC. e.g. Naperville, Joliet, Schaumburg, Aurora and Elgin. Include traffic signal systems in NW Indiana. May include

multi-jurisdictional signal coordination within subareas or corridors that may or may not be contiguous.

Element: Municipal Transit Operations Status: Existing

Description: Transit operations run by municipalities in the region. Includes Hammond Transit operating in NW Indiana.

Element: Municipal/Township Communications Infrastructure Status: Planned Description: Wire or wireless communications infrastructure that supports ITS activities.

Element: Municipal/Township Field Equipment Status: Existing

Description: Consist of Traffic signal systems, preemption/priorty equipment, DMS and CCTV's on municipal roads. EVP are used by

fire, EMS and Police vehicles

Element: Municipal/Township Maintenance Operations Status: Existing

Description: Operations and dispatch of maintenance vehicles and equipment operated by municipalities/ townships within the region.

Element: Municipal/Township Oversize/Overweight Permitting System Status: Existing

Description: Municipal or township processes used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes databases and information developed which show appropriate facilities (weight limits on bridges,

clearances) for routing.

Element: Municipal/Townships Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: Public Parking Spaces Status: Existing

Description: Represents public parking spaces to be managed in the region.

Northeastern Illinois Hospitals/Medical Centers

Element: Regional Hospitals Status: Existing

Description: EMS dispatch from hospitals and medical centers in the region.

**Northwestern Indiana Commuter Transportation District** 

Element: NICTD Dispatch Status: Existing

Description: The Northern Indiana Commuter Transportation District's South Shore line operates trains from NW Indiana into Illinois.

**Pace** 

 Element:
 Pace Automatic Passenger Counting Equipment
 Status:
 Planned

 Element:
 Pace Automatic Passenger Counting Equipment
 Status:
 Planned

 Description:
 On-board equipment which monitors passenger boardings and/or alightings.

Element: Pace BusInfo Signs Status: Existing

Description: BusInfo Signs at Pace transit stops. The signs are part of the regional RTA initiative for better traveler information. They are

displays showing a countdown for the next vehicle of each route/direction serving that stop or station. Quick Response (QR)

Codes are being added for people with smart phones to get more detailed service information.

Element: Pace BusInfo System Status: Existing

Description: Bus Information system that provides bus arrival information for Pace buses to BusInfo signs.

Element: Pace Control Center (IBS)

Status: Existing

Description: Pace Intelligent Bus System, a centralized dispatch computer system which supports physically distributed dispatchers. The

IBS includes not only the dispatch system, but also AVL, on-board processors, audio and visual information display, passenger counting. Provides bus schedule adherence data for driving BusInfo Signs. This includes the Pace Hub that feeds

the Illinois Transit Hub.

Element: Pace Data Archive Status: Existing

Description: This data archive will collect and archive data that it receives from Pace Control center

Element: Pace Garages Status: Existing

Description: Maintenance facilities for Pace transit vehicles

Element: Pace Paratransit Vehicles Status: Existing

Description: These are the vans, buses, taxis and sedans used for Pace contractor-supplied paratransit services.

Element: Pace Regional Paratransit Dispatch Status: Existing

Description: Pace dispatch paratransit dispatch centers, responsible for call taking, scheduling and dispatching paratransit vehicles to serve

ADA and other demand responsive programs. Multiple county/subregional agencies have a number of public and private contractors who provide paratransit services. Each have their own dispatch center.

Element: Pace Regional Ridesharing and Vanpooling Status: Existing

Description: Ridesharing/vanpooling system administered by Pace.

Element: Pace Rideshare Services Status: Existing

Description: This web based application https://www.pacerideshare.com/ provides a free service to match travelers who an share a ride in

their own car, or participate in a Pace van pool.

Element: Pace Security Equipment Status: Existing

Description: These would include both on-board and at transit facilities secuirty cameras. In future, these may be fed live to

supervisor/police/emergency responder vehicles, shared with OEMC, control center.

Element: Pace Transit Bus Vehicles Status: Existing

Description: Fixed route transit vehicles operated by Pace. Equipped with onboard technology for vehicle location, fare, and passenger

counting. Some are equipped with transit priority signal transmitters.

Element: Pace WebWatch Internet Site Status: Existing

Description: WebWatch is an Internet-based program that allows riders to access real-time bus schedule information.

**PPP Partner** 

Element: Chicago Parking Management system

Status: Existing

Status: Existing

Description: Parking management in place for City owned lots and on-street parking in Chicago. The Parking Management Subsystem (PMS) provides electronic monitoring and management of parking facilities. It allows electronic collection of parking fees and monitors and controls parking meters that support conventional parking fee collection. It also includes the instrumentation, signs, and other infrastructure that monitors parking lot usage and provides local information about parking availability and other general parking information.

Element: Private Field Equipment

Description: Field equipment owned by private partners in public-private partnerships. This currently includes red light running cameras

and some Illinois Tollway traffic detection devices.

**Private Bus Agencies** 

Element: Private Bus Dispatch Status: Existing

Description: Private bus agencies operating in the region and in neighboring counties of Wisconsin and Indiana.

**Private Hazmat Agencies** 

Element: Hazmat Management and Cleanup Status: Existing

Description: Private agencies that specialize in Hazmat cleanup.

**Private ISPs** 

Element: Private ISPs - Travel Information Services Status: Existing

Description: Private companies that provide travel information such as predictive travel times and congestion along with real-time/ near-

real time video images to the public.

**Private Parking Operators** 

Element: Private Parking Lots Status: Existing

Description: Parking operations for private parking lots within the region.

**Private Sector Maintenance Contractor** 

Element: Private Sector Maintenance Contractor Operations Status: Existing

Description: Operations and Dispatch for private companies with contracts to the county and municipal traffic agencies for maintenance of

signals, DMS, HAR, lighting systems, and pumping stations.

**Private Taxi Companies** 

Element: Private Taxi Dispatch Status: Existing

Description: Operations and dispatch for private Taxi companies operating within the region.

**Private Towing Companies** 

Element: Private Tow and Recovery Operations Status: Existing

Description: Dispatch for private tow and recovery companies.

**Private Trucking Companies** 

Element: Commercial Vehicles Status: Existing

Description: The commercial vehicles operating in the region that are dispatched and routed by private trucking companies. These include

the capability to be tracked by satellite or to pass location information to their dispatch center.

Element: Trucking Distribution Centers Status: Existing

Description: Includes private commercial fleet management operations in the region.

**Private Weather Information Providers** 

Element: Weather Services Status: Existing Description: Private Companies who provide customized transportation weather information.

**Public and Non-Profit Paratransit Agencies** 

Element: Public/Non-Profit Paratransit Services Status: Existing

Description: Dispatch for paratransit operations run by public or non-profit agencies.

**Rail Freight Operators** 

Element: Rail Freight Operations Status: Existing

Description: Rail operations centers for private rail firms operating in the region.

Element:Rail Private Wayside EquipmentStatus: ExistingElement:Rail Private Wayside EquipmentStatus: ExistingDescription:Equipment located at grade crossings such as sensors, gates, and warning signals.

**Regional Airport Authority** 

Element: Neighboring Airports Status: Existing

Description: This element represents the air transportation information that is available from airports outside the region, but which may be

of interest to the region. For example, from Mitchell Field in Milwaukee.

Element: South Suburban Airport TMC Status: Planned

Description: Traffic Management of surface transportation surrounding the proposed South Suburban Airport

**Regional Event Organizations** 

Element: Regional Event Facilities Status: Existing

Description: Represents the various event facilities in the region that are generators of planned events with significant traffic or transit

impact. Examples are Universities and Colleges. etc.

**Regional Transportation Authority** 

Element: Regional Transit Asset Management System (RTAMS) Status: Existing

Description: Regional Transportation Asset Management System (RTAMS) provides planning and financial information on the

transportation system in the northeastern Illinois areas surrounding Chicago. RTAMS allows users ti access transit and

tollway data through an interactive map.

Element: Regional Transportation Authority Travel Information Center (TIC) Status: Existing

Description: The RTA Travel Information Center (TIC) currently collects static route, schedule and fare information from the three RTA

Service Boards, and uses it to provide information over the phone to travelers in the RTA region. The TIC uses its Itinerary Planning System (IPS) to provide information to callers in the form of specific origin to destination trip plans. In the future,

this may be enhanced by real time data.

Element: RTA InfoTrans Signs Status: Existing

Description: Electronic traveler information signs at O'Hare and Midway in the baggage claim and on the concourses.

Element: RTA Multimodal Trip Planner (Goroo) Status: Existing

Description: Itinerary Planning System is the web based interface of the TIC, providing an interface to users. This is called Goroo.

Element: RTA Passenger Certification Database Status: Existing

Description: Database to determine ridership eligibility for paratransit

Element: RTA Transit Hub Status: Existing

Description: The RTA Transit Hub will be the Transit Information Service Provider for the RTA region. This includes a messaging

subsystem that can provide multimodal information to BusInfo, ATSS, and InfoTrans signs. Serves as information exchange conduit with Illinois Gateway. This will also provide information for the information to support the Goroo dynamic trip planner, which will use real time bus and train tracker information along with predictive capabilities to provide en-route travel

information.

Element: RTA Transit Hub Website Status: Existing

Description: Web interface for accessing transit related data collected by the RTA Transit Hub. This houses Goroo.

**Travelers** 

Element: Road User Status: Existing

Description:

Element: Universal Fare Card Status: Planned

Description: Payment instrument for use in multimodal transportation throughout the region

Element:User Personal Computing DevicesStatus: ExistingElement:User Personal Computing DevicesStatus: Existing

Description: User Personal Computing Devices refers to equipment an individual owns and can personalize with their choices for

information about transportation networks. An Internet-connected PC is an example.

Element: Vehicles Status: Existing

Description: A general element that represents personal automobiles and fleet vehicles that include ITS safety, navigation, traveler

information, and electronic tolling (IPASS) systems that may be applicable to any highway vehicle.

**US Coast Guard** 

Element: Coast Guard Dispatch Status: Existing

Description: Operations and Dispatch of Coast Guard assets in the region.

**US Navy** 

Element: Great Lakes Training Center Status: Existing

Description: This major Navy training facility has a police department, and generates a lot of traffic when they have events. They also

need to be coordinated with during any evacuation.

**Utility Companies** 

Element: Utility Company Operations Status: Existing

Description: Operations and dispatch function of utility companies in the region. Includes telephone, gas, cable, pipeline.

**Violation Enforcement Processing Service** 

Element: Automated Enforcement Cameras Status: Existing

Description: Cameras used for red-light running and speeding enforcement program, also to develop roadway traffic counts.

Element: Violation Enforcement Processing Center Status: Existing

Description: Contracted service that operates the field equipment and notifies the violation to the respective authorities

Water Taxi Operators

Element: Water Taxi Service Status: Existing

Description: Dispatch for Water Taxi Services operating in the Region.

Will County Division of Transportation

Element: Will County Division of Transportation Field Equipment Status: Existing

Description: Traffic signals, preemption/priority equipment, traffic sensors, CCTV, and dynamic message signs (contractor supplied)

owned and operated by Will County Highway.

Element: Will County Division of Transportation Maintenance Operations Status: Existing

Description: Operations and dispatch of maintenance vehicles and equipment for Will County. There are 3 manned facilities.

Element: Will County Division of Transportation Maintenance Vehicles Status: Existing

Description: Maintenance vehicles used to perform snow removal, roadway treatment and roadway maintenance.

Element: Will County Division of Transportation Website Status: Existing

Description: Website which provides information to the public. It includes the ability to download oversize and overweight truck

applications, construction information, and permits.

Element: Will County Oversize-Overweight Permitting Status: Existing

Description: County processes used to accept applications and provide permits for oversize/overweight commercial vehicles. This includes

databases and information developed which show appropriate facilities (weight limits on bridges, clearances) for routing.

Element: Will County TMC Status: Potential

Description: Traffic Management Center for Will County operated roadways.

Will County Emergency Management Agency

Element: Will County EOC Status: Existing

Description: Emergency Operations Center for Will County

Element: Will County EOC Field Equipment Status: Existing

Description: Consists of cameras for surveillance of infrastructure, portable DMS & emergency communication devices for emergency

management

**Will County Sheriff** 

Element: Will County Sheriff Communications Center Status: Existing

Description: Public Safety Answering Points (PSAPs) for Will County. 911 call taking and Public Safety Dispatch for unincorporated

areas and mobile calls.

Element: Will County Sheriff Portable Scales Status: Existing

Description: Includes fixed site weigh scales for truck weight enforcemnt.

Element: Will County Sheriff Vehicles Status: Existing

Description: Emergency Vehicles with mobile data terminals that can be used to access information from Dispatch

## **Wisconsin Dept of Transportation**

Element: Wisconsin Gateway (MONITOR) Status: Existing

Description: This represents the Gateway that collects traffic, transit, and traveler information from systems within Wisconsin and

forwards this information to Gateway Central. Key information available to the Wisconsin Gateway is outputs from the

MONITOR system.

Element: Wisconsin State Patrol District 2 Dispatch Status: Existing

Description: Operations and dispatch for Wisconsin State Patrol district that border the region.

Element: WisDOT Statewide Traffic Operations Center Status: Existing

Description: Includes the MONITOR System.

## **Wisconsin Public Safety Agencies**

Element: Wisconsin Municipal Public Safety Status: Existing

Description: Police, Fire, EMS, and 911 call taking for municipalities in southeastern Wisconsin.